

Introduction to the Climate Adaptation Knowledge Exchange (CAKE)



Jessica Hitt EcoAdapt



Objectives

- Build the field of Adaptation
- Build capacity
- Support implementation

Program Areas

- Status of Adaptation
- Climate Adaptation Clearinghouse (aka CAKE)
- Climate Camp
- Implementation Support



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A joint partnership by EcoAdapt and Island Press





Why make a CAKE?



- Adaptation is a nascent and disparate field
- Too much reinventing, not enough innovating
- Top-down field that needs bottom up development
 - needs a philosophical framework
 - needs an approachable, findable set of tools, information, case studies, & practitioners

What are the Pieces of CAKE?

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Unique Features of CAKE

- Georeferenced Database
- Cross referenced
- Highlighting not replicating existing effort
- Outreach on both ends (populating and use)
- Focus on building the community to build the field
- Approachable content





You can use CAKE in a number of ways to find the people and information you need.

You might start with a question about a particular impact of climate change...

What can I do about sea level rise?

Find a case study to help you develop ideas

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TOOLS COMMUNITY

The Ocean and Climate Change: Tools and Guidelines for Action









Display results in a:
List Map





Case Study:

On the ground climate adaptation action



Library:

People and organizations adapting to climate change

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July 4th: Workshop 22: Climate adaptation knowledge exchange: building an...

By : Kate | June 14, 2010

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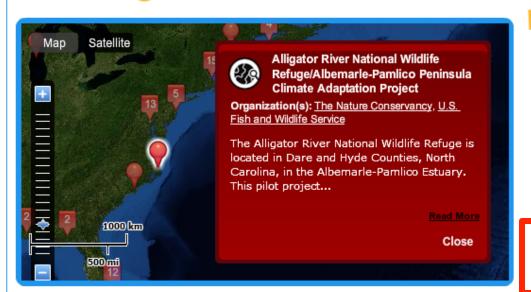
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About the Case Studies

The Case Study Database profiles on the ground adaptation projects and links to complete project information.

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Search the CAKE Library for all Case Studies relevant to climate adaptation. You can search by text

sea level rise View results as:

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FEATURED CASE STUDY



Alligator River National Wildlife Refuge/Albemarle-Pamlico Peninsula Climate Adaptation Project

The Alligator River National Wildlife Refuge is located in Dare and Hyde Counties, North Carolina, in the Albemarle-Pamlico Estuary. This pilot...

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WHAT'S NEW

Scenic Hudson Land Trust: Prioritizing lands in light of sea level rise

June 22, 2010

The Scenic Hudson Land Trust is conserving properties along the Hudson River to buffer future sea level rise impacts, engaging with the ...

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Search in case studies for the text "sea level rise"

Sort results by list or map







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Scenic Hudson Land Trust: Prioritizing lands PRINT | DOWNLOAD in light of sea level rise

Submitted by kfeifel on June 22, 2010

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Sacha Spector Scientist--natural sspector@scenichudson.ora⊠

Scenic Hudson

1 Civic Center Plaza, Suite 200 Poughkeepsie, NY, 12601 United States



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Project Summary / Overview

The Scenic Hudson Land Trust is conserving properties along the Hudson River to buffer future sea level rise impacts, engaging with the public through education and outreach projects to encourage low-carbon development patterns, and is engaging with policymakers to update coastal management regulations in anticipation of greater frequency and more intense flood events and sea level rise. To target and prioritize land acquisitions, the land trust used GIS<?xml:namespace prefix = st1 /> to integrate criterion based upon scenic value, biological or ecological significance, and vulnerability to sea level rise. Essential to their efforts has been partnerships and collaboration with state and local governments and other NGOs; communication with partners has enhanced organizational capacity, avoided project redundancy, and aligned regional efforts.

Project Background

The Scenic Hudson Land Trust initially became interested in climate change when staff began looking into carbon sequestration and other carbon-based markets as an additional income source for their land holdings. After completing an analysis, it was determined that the land trust is not large enough and does not have the proper vegetation cover to act as a marketable carbon sequestration site.

As climate change became a more prominent issue at the land trust, the land trust's board became energized by the number of climate related initiatives in the state of New York that the land trust could participate in. In particular, the Nature Conservancy launched "Rising Waters", a stakeholder participation process throughout the entire Hudson River Valley to assess the community's vulnerability to --- |----| -:--- |----- |----- |----| ----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |----| |-----| |----| |----| |----| |----| |----| |----| |----| |----|

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External Source/Attribution

Scenic Hudson website

Read more about a particular case study

Case Study Components:

- **□**Project Summary/ Overview
- ☐ Project Background
- **□**Project **Implementation**
- □ Project Outcomes and Conclusions

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Scenic Hudson Land Trust: Prioritizing lands PRINT DOWNLOAD in light of sea level rise

Submitted by kfeifel on June 22, 2010

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Scientist--natural sspector@scenichudson.org

1 Civic Center Plaza, Suite 200 Poughkeepsie, NY, 12601 United States

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through a 10 step program to create a community based climate change plan and audit process.

▼ Project Background Keywords =

Habitat/Biome Type: Wetland Estuarine Rivers and Streams (year round) Grassland Forest Aquatic -Freshwater Aquatic - Mixed Terrestrial

Type of Adaptation Action/Strategy: Incorporate future conditions into restoration planning and policies Natural Resource Management/Conservation | Increase/Improve public awareness, education, and outreach efforts | Conduct/Gather additional research, data, and products | Enhance migration corridors and other connectivity measures | Design reserves to allow for inland, altitudinal, or latitudinal movement | Initiate targeted research program | Capacity Building

Jurisdiction: Community/Local

Natural Resource Focus: Freshwater Terrestrial

Climate Type: Temperate

Sociopolitical Setting: Rural Suburban

Sector Addressed: Conservation/Restoration

Motivating Driver: Perceived threats to conservation or management work | Perceived funding/other economic

opportunities

Target Impacts: Biodiversity loss | Erosion | Flooding -

coastal Habitat loss Loss of species of concern

Phenological shifts | Sea level rise

Project Implementation

Climate change has become a central issue for Scenic Hudson land trust. Staff focus outreach and education efforts by engaging



Or you might be interested in a particular management problem...

What's a water manager to do?

How can I find other management plans to get me started?

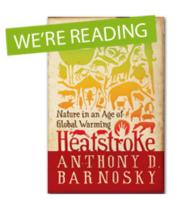


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Heatstroke Nature in an Age of Global Warming by Anthony Barnosky

FEATURED DOCUMENT



The Ocean and Climate Change: Tools and Guidelines for Action

By: Dorothée Herr and Grantly R. Galland Published:November 02,

2009

The ocean continues to get only peripheral attention in climate change research and policy, despite its enormous importance in regulating alobal...

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WHAT'S NEW

Climate Change Adaptation Implications for Drought Risk Mitigation: A Perspective for

By: S. V. R. K. Prabhakar and Rajib Shaw Published:October 10, 2007 Abstract:

There is a growing evidence that the climate change do has implications for drought vulnerable...

Read more.

Assessing Mitigation-Adaptation Scenarios for Reducing Catastrophic Climate Risk

By: Chad Settle and Jason F. Shogren and Sally Kane

Published: May 16, 2007 Abstract:

Countries can use both mitigation and adaptation strategies to protect their citizens from...

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The destination for qualityconfirmed literature and information focusing on adaptation relevant to your adaptation planning.

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watershed management plan

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Part I: Existing Conditions Report of the District's Watershed Management Plan

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San Lorenzo Valley Water District and Betsey Herbert May 07, 2009



Link http://www.slvwd.com/watershed.htm @



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Abstract

This document represents the most current information available to the District about the natural and historic conditions of watershed property in the context of the San Lorenzo River watershed.

▼ Additional Document Information

Tools: Historical Analysis

Sector Addressed: Water Resources

Jurisdiction: Community/Local

Document Type: Article

Habitat/Biome Type: Forest Freshwater

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kfeifel | December 8, 2009





Мар

200 mi

Betsey Herbert bherbert@slvwd.com

San Lorenzo Valley Water District

13060 Highway 9 Boulder Creek, CA, 95060 United States



ESRI

Project Summary / Overview

In 2008, the Board of the San Lorenzo Water District approved a climate change resolution that commits the District to reducing greenhouse gas emissions and considering the impacts of climate change in all planning documents. The 2009 Master Water Supply and Management Plans discuss how climate change will impact local water resources. Climate change is expected to cause drier and shorter wet seasons regionally making water conservation and efficiency priorities for water managers.

Project Background

In April, 2008, the San Lorenzo Water District (SLWD), in collaboration with nearby water districts, sponsored a local forum titled "Tools for addressing climate change and local water resources." The forum addressed three key questions: 1. What are the potential impacts of climate change on local water resources? 2. How can local water managers plan for these impacts? 3. How can local water agencies reduce their carbon footprint? After the forum concluded, the SLWD Board of Directors approved a climate change resolution mandating that all future documents and plans properly address the impacts, mitigation opportunities, and adaptation strategies to climate change. To assess the vulnerability of the SLWD to future climate change, the District first turned to global climate models to ascertain predicted regional changes. The climate models presented a drier and shorter wet season with a 30 to 10oF increase in annual temperatures by 2100. These findings indicate that the total amount of water available state-wide will decrease, water demand will increase, and the timing of water availability will be altered. To design a water management plan capable to adapt to climate change, the SLWD reanalyzed historical hydrological conditions and water production records dating to 1984 over which time period the SLWD incurred two droughts. This analysis was then extrapolated to 2030 to infer the potential effects of climate change on water resources, assuming that future climate variability reflected historical norms. By 2030, without any supplemental water resources, the Southern Service area of the SLWD may not have enough water to fulfill water resource demands. However, it is expected that the Northern Service will be more resilient to climate impacts, thus if the Northern and Southern Service areas could be connected (an "Intertie"),

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- SLVWD Water Supply Master Plan May 2009

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· San Lorenzo Valley Water District websit



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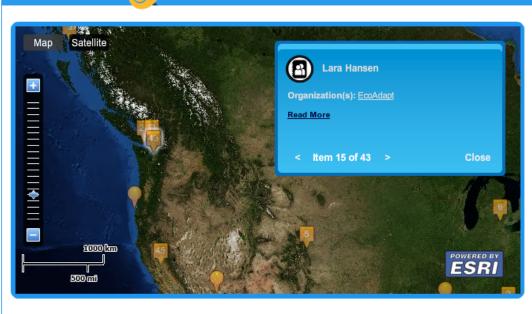
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By: Anonymous

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Isabella Masinde

By: Anonymous

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March 22, 2010

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Email Address

iennie@ecoadapt.org ☑

Organization

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Jennie first investigated the biological effects of global change in 1992, when she joined a project looking at the effects of ozone depletion on Antarctic sea urchin embryos. She has since expanded her work to include interactive effects of warming and ultraviolet radiation on marine organisms, climate change vulnerability assessment, and adapting conservation and natural resource management to a changing climate. In addition to her peer-reviewed scientific papers, Dr. Hoffman is author or co-author of several books and reports, including Climate: The Force That Shapes Our World and the Future of Life on Earth, and Buying Time: A User's Manual for Building Resistance and Resilience to Climate Change in Natural Systems. The User's Manual lead to the development of Climate Camp workshops, a participant-driven process to help resource managers, conservation practitioners, and others create strategies to reduce the vulnerability of their work to climate change. Jennie has helped lead multiple Climate Camps for participants from around the globe. She earned her Ph.D. at the University of Washington in Ecology and her undergraduate degree in geology and biology from Brown University. After five years of working with the WWF-International Climate Change Programme's Impacts and Adaptation group as a consultant and employee, Jennie joined with Lara Hansen and Eric Mielbrecht to start a new non-profit, EcoAdapt, focused on climate change adaptation.

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CAKE Documents

- · Adapting Conservation and Management to Climate Change: An Overview
- · Buying Time: A User's Manual to Building Resistance and Resilience to Climate Change in Natural Systems
- Designing Climate-Smart Conservation: Guidance and Case Studies
- Unnatural Disaster: Global Warming and Our National Parks



...or you might just want to see what adaptation projects are going on near you...

I don't know where to begin.

Are there any efforts already underway near me that I can partner with?



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Dialogue on NOAA Climate Service: June 14- June 28 By: Kate | June 07, 2010

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By: jennie
March 26, 2010

Dear Adaptation Mavens

I have finally come to accept that climate change is altering the bog in which I...

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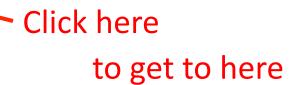


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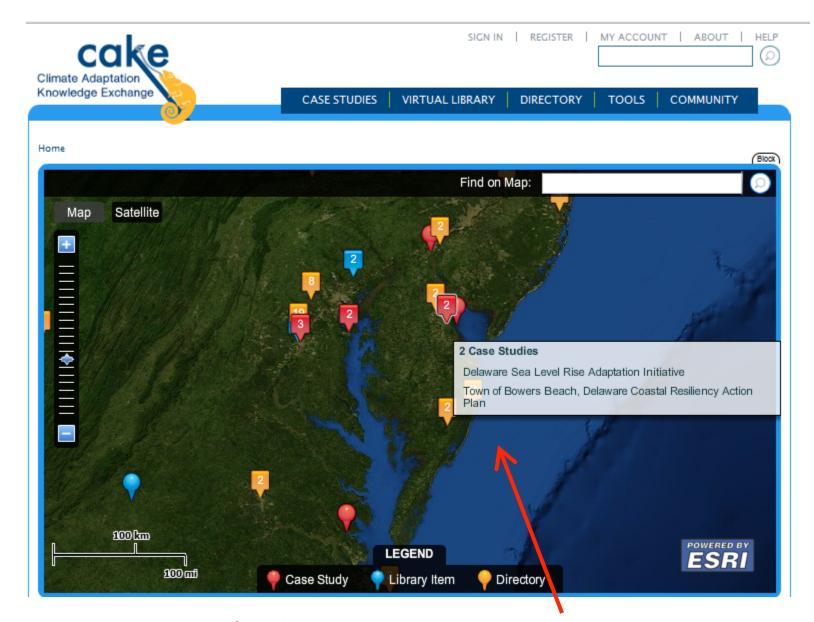
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Town of Bowers Beach, Delaware Coastal **Resiliency Action Plan**

Submitted by Rachel on March 29, 2010

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Susan Love

Susan.Love@state.de.us ₪

Delaware Department of Natural Resources and Environmental Control

Division of Soil and Water Conservation

5 East Reed Street, Suite 201 Dover, DE, 19901 United States



Project Summary / Overview

As part of their statewide Sea Level Rise Adaptation Initiative, the Delaware Coastal Programs Office of the Division of Soil and Water Conservation in the Delaware Department of Natural Resources and Environmental Control (DNREC) is helping the Town of Bowers Beach to conduct a vulnerability assessment and develop a coastal resiliency action plan to prepare for and adapt to sea level rise and other projected climate change impacts. This pilot implementation project will examine the coastal hazards risks to the Town of Bowers Beach, identify issues of concern, collect relevant information, and develop adantation strategies

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Interface Funding: Kresge Foundation

Content Funding: Moore Foundation, Wilburforce Foundation, Ocean Fund (Pending)

Outreach Funding: Moore Foundation, Wilburforce Foundation, Land Trust Alliance/TNC, Doris Duke Charitable Foundation

Content in kind: USFWS National Conservation Training Center, DataBasin/ Conservation Biology Institute, Environmental Law Institute (Adaptation Governance/MacArthur Foundation Funded), NOAA (Coral Reef Watch and Coastal Services Center), Society for Ecological Restoration, among others